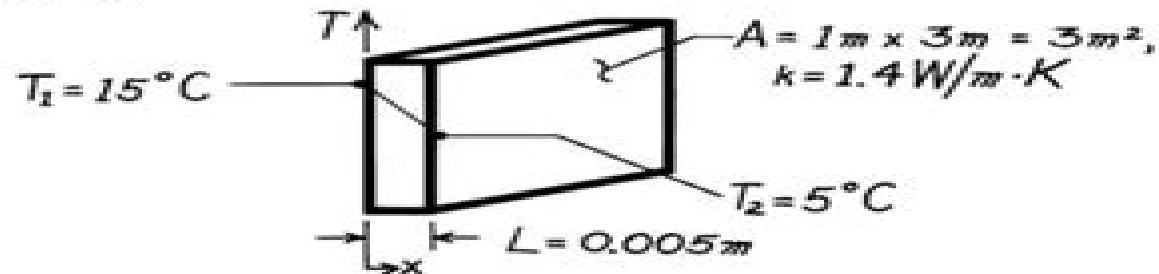


PROBLEM 1.5

KNOWN: Inner and outer surface temperatures of a glass window of prescribed dimensions.

FIND: Heat loss through window.

SCHEMATIC:



ASSUMPTIONS: (1) One-dimensional conduction in the x -direction, (2) Steady-state conditions, (3) Constant properties.

ANALYSIS: Subject to the foregoing conditions the heat flux may be computed from Fourier's law, Eq. 1.2.

$$\begin{aligned}q_x'' &= k \frac{T_1 - T_2}{L} \\q_x'' &= 1.4 \frac{\text{W}}{\text{m}\cdot\text{K}} \frac{(15-5)^\circ\text{C}}{0.005\text{ m}} \\q_x'' &= 2800\text{ W/m}^2.\end{aligned}$$

Since the heat flux is uniform over the surface, the heat loss (rate) is

$$\begin{aligned}q &= q_x'' \times A \\q &= 2800\text{ W/m}^2 \times 3\text{ m}^2 \\q &= 8400\text{ W}.\end{aligned}$$

COMMENTS: A linear temperature distribution exists in the glass for the prescribed conditions.

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Yicheng Fang



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